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Lockheed

SFUND RECORDS CTR 2166-00091

Aeronautical Systems Company

A Division of Lockheed Corporation Burbank, California 91520 -3801 (818)847-7700

EDWARD J. FAEDER, Ph.D., R.E.A. DIRECTOR ENVIRONMENTAL PROTECTION & SAFETY

November 22, 1988

EJF 1188/167

Ms. Paula Bisson State Programs Section U.S. Environmental Protection Agency Region IX 215 Fremont Street San Francisco, CA 94105

Dear Ms. Bisson:

We prepared this letter and the accompanying materials are in response to your letter of October 27, 1988. They contain information relative to groundwater contamination in the San Fernando Valley.

We are currently preparing or gathering certain reports and data identified in your list of requested items. These will be provided to EPA on the dates specified in our response package.

I am pleased to learn that EPA has contacted the facilities that we identified as potentially responsible parties. Should we develop information on other suspected sources we will certainly forward it to your office.

If you have any questions on the information provided herewith, please contact Ron Helgerson at (818) 847-6927.

Sincerely,

Charl Jalan

Edward J. Faeder

EJF/BM:cj

Enclosure

Ms. Paula Bisson Mailing List EJF1188/167 November 22, 1988

W/O Enclosure:

- E. L. Graham
- R. N. Helgerson
- W. W. Hoye, LA DWP
- T. L. Kubani
- F. Lantz, Burbank PSD
- F. H. Reed
- T. J. Reed
- D. N. Urquhart

RESPONSE TO THE EPA INFORMATION REQUEST

Letter from Paula Bisson of EPA Region IX to Dr. Edward J. Faeder of Lockheed Reference:

Dated October 27, 1988

Submitted by: Lockheed Aeronautical Systems Company Burbank, California

November 22, 1988

ITEM 1: PHASE 3 WELL COMPLETION AND GEOPHYSICAL LOGS

The following two reports contain well completion and geophysical logs for Phase 3 wells:

Report on the Installation/Construction of Groundwater Monitoring Wells at the Lockheed Burbank Facility; Areas 1, 2, 3, and 4. September 11, 1988.

Report on the Installation/Construction of Groundwater Monitoring Wells at the Lockheed Burbank Facility; Areas 5, 6, 7, and 8. (In preparation).

The first report was submitted to the California Regional Water Quality Control Board on September 18, 1988. A copy of this report is herein enclosed as Enclosure No. 1. The second report is still in draft form and under internal review at Lockheed. We anticipate that we would be able to submit this report to the CRWQCB by December 23, 1988.

ITEM 2 - AQUIFER TEST RESULTS FROM PHASE 3 WELLS

The following report, which was submitted to the CRWQCB on October 13, 1988, contains the results f the only aquifer testing conducted on Phase 3 wells:

Results of Isolation Pump/Sample Testing, Aquifer Testing, and Sampling at Selected Groundwater Monitoring Wells; Lockheed Aeronautical Systems Company Plant B-1, Burbank, California. October 6, 1988.

A copy of this report is herein enclosed as Enclosure No. 2.

ITEM 3 - WATER QUALITY DATA, PHASE 3 WELLS

The sampling and Analysis Report on the remaining Phase 3 monitoring wells is in preparation and will be submitted to the California Regional Water Quality Control Board on December 15, 1988. A copy of the report will be provided to EPA.

ITEM 4 - SOIL VAPOR EXTRACTION SYSTEM RESULTS

The referenced cleanup and Abatement Order specifies December 15, 1988 for submittal of the report on the evaluation of the SVE system. Although the SVE system became operational on August 1, 1988, much of the initial operation has been of parametric nature to establish optimum operating conditions and to identify and resolve equipment and process-related problems (See Monthly Progress Reports for August, September, and October). The total steady-state operation of the system has not been of sufficient duration to allow any detailed evaluation of the system performance at this time. As reported in the August Monthly Progress Report, analysis of samples of the influent and effluent during an initial test run, however, verified that the SVE system was performing as designed.

To ensure use of an adequate data base for system evaluation, Lockheed has indeed requested the CRWQCB to extend the deadline for submitting the evaluation report to January 31, 1989. This extension will allow collection of additional performance data for

use in the evaluation. The system evaluation report that will be submitted to the CRWQCB will contain the operation data and the performance evaluation results. A copy of this report will be submitted to EPA.

ITEM 5- SOIL BORINGS AND ANALYSIS FROM AREAS WHERE SOIL GAS CONCENTRATIONS ARE HIGH

Even though the results of the Phase 5 and Phase 6 soil-gas survey work suggested the desirability of conducting confirmatory soil borings and sample analysis in areas of high soil-gas concentration, limited borings in the vicinity of Building 175 proved inconclusive in showing a strong correlations between soil contamination and results from soil-gas samples. Accordingly, no additional confirmatory soil borings have been conducted in areas of high soil-gas concentration, pending development of a better understanding of the site stratigraphy, historical chemical handling and disposal practices, and man-made subsurface features which may act as likely conduits for vapor transport.

ITEM 6 - LOGS FROM BORINGS 6 and 7 NEAR CLARIFIER B1-ZB

The logs from borings 6 and 7 near clarifier B-1-ZB are provided as enclosure No. 3.

ITEM 7 - STATUS OF MULTI-SCREENED WELLS

As was reported in monthly progress reports for August and September, LASC has decided to convert the existing multiple-screen wells to single-screen wells by pressure grouting each well up to just below the bottom of the uppermost screen. After extensive discussions with companies which specialize in well abandonment, a conceptual design has been formulated and work is currently in progress to finalize the design for submittal to DOHS for approval prior to implementation.

ITEM 8: INFORMATION ON TANK LEAK PROGRAM SINCE 1985

A summary of tank testing, removals and cleanup operations since 1985 will be included in the revised Site Assessment Report scheduled for submittal to the California Regional Water Quality Control Board in June, 1989. A copy of the report will be provided to EPA.

ITEM 9 - PIPING DETAILS FROM BUILDINGS 175 & 180

Buildings 175 and 180 have undergone major modifications since their construction in 1942 and 1970, respectively. The number of piping drawings stored in our drawing files are too numerous to include in this submittal. These drawings, however, can be reviewed by EPA in our office and specific drawings can be reproduced.

The detailed construction drawings of clarifier B-1-ZB and its associated piping was destroyed following the abandonment and filling of the clarifier in 1985.

A description of the pipes leading to and from the clarifier is as follows:

- One four inch diameter pipe ran from a sump in the degreaser pit just inside the north wall of Building 175 to the first stage of the clarifier. Although, the pit was normally dry, liquids did occasionally collect from overfilling of adjacent process tanks or water pipe leaks. In such cases, the pump was activated to move the liquids to the clarifier.
- O A one inch diameter drain line ran from a deionizer unit to the first stage of the clarifier. This line, which was approximately 20 feet long, was installed to carry excess, sightly acidic water generated during regeneration of the ion exchange beds, to the clarifier.
- o A four inch diameter outlet pipe ran from the second stage of the clarifier east approximately 100 feet and connected to a sewer line which ran from inside Building 175 to the Burbank sewer line in Empire Avenue.

ITEM 10 - EXTRACTION PUMPING SYSTEM DETAILS AND ANALYSIS

10.1 Specifics of Extraction Well Details

The following document, which is currently in draft form and under internal review at Lockheed, contains well completion and boring logs and information on the development procedures, pump design, equipment and methods for measurement of water level in the well, etc. for the extraction well:

Report on the Installation/Construction of the Building 175 Groundwater Extraction Well, Plant B-1, Lockheed Aeronautical Systems Company, Burbank, California; November 28, 1988.

We anticipate that we will be able to submit this report to the CRWQCB by December 23, 1988. A copy of this report will also be forwarded to EPA.

The groundwater treatment system evaluation report, mandated by the Cleanup and Abatement Order will contain information on well head instrumentation and the results of analysis of the water samples from influent and effluent to the treatment system. As noted in the response to Item 4, The Cleanup and Abatement Order specifies December 15, 1988 as the date for submittal of the report on the evaluation of the groundwater extraction and treatment system. However, since the total steady-state operation of the system will not be of sufficient duration to allow any detailed evaluation of the system performance by the indicated deadline, Lockheed has requested the CRWQCB to extend this deadline to January 31, 1989. This extension will allow collection of additional performance data for use in the evaluation. When available, a copy of this report will be submitted to EPA.

ITEM 11: QUARTERLY MONITORING OF SUCTION LYSIMETERS

In November, 1983 the California Regional Water Quality Control Board, Los Angeles Region (CRWQCB) directed Lockheed to conduct an underground tank leak detection program at its Burbank facilities following the "Leak Detection Program Guidelines" prepared by the CRWQCB.

Lockheed's plans for the leak detection programs at its plants A-1, B-1 and B-6, as approved by the CRWQCB, included the installation of suction lysimeters in lieu of vapor monitoring wells at tanks, sumps and clarifiers which did not contain volatile organic materials.

The final results of the tank investigations at plants B-6, A-1 and B-1, submitted to the CRWQCB in January, February and April, 1985 respectively, did state that the lysimeters would be monitored quarterly. However, this program was never implemented when it was determined that analytical data derived from lysimeter sampling would not satisfy the requirements of the County of Los Angeles Underground Storage of Hazardous Materials Guidelines published in October, 1984.

Lockheed is currently acting under direction of the Los Angeles County Department of Public Works to complete a program which includes, among other things, tank integrity testing, installation of in-tank monitoring equipment, continuous leak detection systems and the preparation of a tank monitoring program.

ITEM 12: SUMMARY OF PCE AND TCE USAGE

Prior to 1966 TCE was used solely as a vapor degreasing solvent. In that year the Air Pollution Control District (APCD) adopted Rule 66 which restricted the use of photochemically reactive solvents and Lockheed replaced TCE with 1,1,1-Trichloroethane (TCA) and tetrachloroethylene (PCE) as degreasing solvents.

Degreasing operations have been conducted at four Lockheed plants in the Burbank area. Table 1 lists the plant and building numbers in which degreasing units have been or are currently located.

Information on specific dates of installation and operation of the individual pieces of equipment is unavailable.

Note 5 requested information on the use and disposal of TCE and PCE in each building for each year since use began. Degreaser operations in some buildings date back over forty years and it would be extremely difficult to retrieve records or locate people who were familiar with degreaser solvent usage that long ago.

Although, we are unable to provide information on solvent usage by building, Table 2 does present data on PCE disbursements, by plant, for the period 1982 thru 1987.

All unusable degreaser solvents have been transported off-site in drums or vacuum trucks for disposal or reclaiming. Since Lockheed has not maintained complete records of its TCE and PCE disposal activities from the start up of operations we are unable to provide detailed information on the disposition of these solvents as requested by EPA.

TABLE 1 - DEGREASING EQUIPMENT LOCATIONS

Plant	Bldg.	Equipment Type	Solvent	
A-1	68	Vapor	PCE	
	69	Vapor	PCE	
	93	Vapor	PCE	
	74	Vapor	PCE	
	80	Vapor	PCE	
	80	Vapor	TCA	
B-1	175	Vapor	PCE	
	110	Vapor	PCE	•
	104	Vapor	PCE	
	140B	Vapor	PCE	
B-5	P414	Vapor	TCA	
B-6	310	Vapor	TCA	
	353	Vapor	TCA	
	360	Vapor	TCA	
	371	Vapor	TCA	

TABLE 2 - PCE DISBURSEMENTS (1981 Through 1987)

Plant	Year	Quantity Disbursed (Gals)
A-1	1981	43,768
	1982	30,415
	1983	32,365
•	1984	16,280
	1985	7,149
	1986	2,955
	1987	2,744
B-1	1981	30,415
	1982	13,148
	1983	11,321
	1984	23,355
	1985	16,295
	1986	26,599
	1987	20,200

ENCLOSURE NO. 3

LOGS FROM BORINGS 6 AND 7 NEAR CLARIFIER B1-ZB

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